

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,003	01/25/2001	William Girzone	Girzone 2	5206
7590 02/28/2004		EXAMINER		
Daniel N. Dai			WANG, GEORGE Y	
Chief Patent and Trademark Counsel TyCom (US) Inc.			ART UNIT	PAPER NUMBER
Rm 2B-106, 250 Industrial Way West			2871	· <u>-</u> -
Eatontown, N.	07724		DATE MAILED: 02/28/2004	!

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/770,003 GIRZONE ET AL. 99/770,003 GIRZONE ET AL. 2871	unication.
## Examiner George Y. Wang 2871 The MAILING DATE of this communication appears on the cover sheet with the correspondence address of Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after Six (b) MONTH's from the mailing date of this communication. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after Six (b) MONTHS from the mailing date of this communication. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after Six (b) MONTHS from the mailing date of this communication. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after Six (b) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 November 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the me closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-9 and 21-26 is/are rejected. 7) Claim(s) is/are allowed. 8) Claim(s) 1-9 and 21-26 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Appl	unication.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply within the set or extended period for reply will, by statute, cause the application to become ABANCONED (30 LS C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seminary patent term adjustment. See 37 CFR 1.704(b). Status 1) ★ Responsive to communication(s) filed on 26 November 2003. 2a) ★ This action is FINAL. 2b) ↑ This action is non-final. 3) ↑ Since this application is in condition for allowance except for formal matters, prosecution as to the meticosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ★ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) ★ Claim(s) 1-9 and 21-26 is/are rejected. 7) ↑ The province of the Examiner of the Examiner of the drawing(s) filed on 04 November 2002 is/are: a) ★ accepted or b) ↑ objected to by the Examiner Applicant	unication.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply sepcified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply vince the set or extended period for reply will, by statute, cause the application to become ABANDONED (30 U.S. C; § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 November 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the me closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-9 and 21-26 is/are rejected. 7) The specification is objected to by the Examiner. 4pplication Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 04 November 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyan	unication.
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILLING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication reply in the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C.§ 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) ☑ Responsive to communication(s) filled on 26 November 2003. 2a) ☑ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the machine of the provided period for reply is application. 4a) Of the above claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) is/are allowed. 6) ☑ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 04 November 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	unication.
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 26 November 2003. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the meticosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5) □ Claim(s) 1-9 and 21-26 is/are rejected. 7) □ Claim(s) □ is/are allowed. 6) □ Claim(s) □ is/are allowed. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 04 November 2002 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
1) ☐ Responsive to communication(s) filed on 26 November 2003. 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the metalosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 21-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 04 November 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	erits is
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the meclosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 21-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on O4 November 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	erits is
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the meclosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 21-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on O4 November 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	erits is
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 and 21-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 04 November 2002 is/are: a) accepted or b) objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	erits is
4) ☐ Claim(s) 1-9 and 21-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 21-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 04 November 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-9 and 21-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 04 November 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>04 November 2002</u> is/are: a) accepted or b) objected to by the Examiner Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
10) ☐ The drawing(s) filed on <u>04 November 2002</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examinel Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-1	.121(d).
Priority under 35 U.S.C. § 119	
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:	

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 2. Claims 1, 3, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein et al. (U.S. Patent No. 4,707,066, from hereinafter "Falkenstein") in view of Rogers, Jr. (U.S. Patent No. 5,157,753).
- 3. Regarding claims 1, 3, 9, and 23-26, Falkenstein discloses an optical fiber device and method with a housing (fig. 1, ref. G) having a wall (col. 5, lines 39-40), a vacuumed enclosure (fig. 1, ref. K; col. 3, lines 63-65), an optical fiber holding tube (fig. 1, ref. R) extending through

Art Unit: 2871

the wall and having a first and second end (col. 5, lines 62-68), an optical fiber (fig. 1, ref. L), and a gas blocking device made of hot melt glue (col. 1, lines 65-67) and creates a seal that prevents water and gas from passing through the fiber holder (col. 3, lines 48-50), which is organized by a fiber insert (fig. 1, ref. W) and holes (col. 4, lines 27-49).

However, Falkenstein fails to specifically disclose a plurality of optical fibers that are sealed with a sealing material inside the passageway of a fiber containing body and that also act strength members.

Rogers discloses an optical fiber device with a plurality of optical fibers that are sealed with a sealing material inside the passageway of a fiber containing body and that also act strength members (fig. 2, ref. 14).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specified the use of a plurality of optical fibers that are sealed with a sealing material inside the passageway of a fiber containing body since one would be motivated to conduct modulated light pulses with information not to just one but multiple receiver modules (Falkenstein, col. 1, lines 14-20) for improved distribution of optical data and transmission efficiency. It would have been obvious to one of ordinary skill in the art at the time the invention was made to also use the optical fibers as strength members since one would recognize that any solid, longitudinal structure can serve as a strength member (Patterson, abstract; fig. 2, ref. 10). Patterson's optical fibers are not only supported by the fiber containing body (fig. 2, ref. 18), but also support by each other within the fiber containing body (fig. 2a, ref. 218). Ultimately, incorporating a plurality of optical fibers as strength members

would save space and material, thereby reducing production costs and creating an optical device that is light and compact and has a hermeneutically tight seal (col. 2, lines 10-19).

- 4. Claims 2 and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein and Rogers, in view of Tanabe et al. (U.S. Patent No. 5,613,031, from hereinafter "Tanabe").
- 5. As to claim 2, Falkenstein and Rogers disclose an optical fiber device as recited above. However, the references fail to specifically disclose the gas being blocked is nitrogen.

Tanabe discloses fiber optic insert structure whose seal or gas blocking device prevents passage of nitrogen (col. 1, lines 19-24).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have a gas blocking device preventing passage of nitrogen since one would be motivated to keep the most abundant gaseous element of our atmosphere from the fiber since optical elements tend to deteriorate in the air and surrounding atmosphere (col. 1, lines 19-20). This not only preserves longevity of the optical fibers but promotes stability and reliability in performance of the fiber and module (col. 1, lines 20-24).

6. As per claims 4, 6, and 8, Falkenstein discloses an optical fiber device as recited above with an optical fiber holding tube (fig. 1, ref. R) extending through the wall and having a first and second end (col. 5, lines 62-68) made metal soldering (col. 4, lines 53-57) and a gas blocking device made of hot melt glue (col. 1, lines 65-67) that creates a seal that prevents

water and gas from passing through the fiber holder (col. 3, lines 48-50), which is organized by fiber inserts (fig. 1, ref. W) and holes (col. 4, lines 27-49). The passageway for the fiber is also conical with a wide and narrow portion and tapering middle section, such that the fiber insert is at the wide portion (fig. 1, ref. W).

Page 5

7. <u>As to claims 5 and 7</u>, Falkenstein and Rogers disclose an optical fiber device as recited above. However, the reference fails to specifically disclose a locking member securing a non-compressible, fiber-organizing insert at one end of the fiber body.

Tanabe teaches an fiber optic insert structure with a locking member or fixing ring (fig. 1, ref. 23). Furthermore, the reference discloses that the insert is made of non-compressible material, such as an Fe-Ni-Co alloy and steel (col. 2, lines 32-34).

It would have been obvious to one of ordinary skill at the time the invention was made to have utilized a locking member to secure a non-compressible, fiber-organizing insert at one end of the fiber body since one would be motivated by increased hermetic, or air-tight, sealing. Although the reference teaches that it is not necessary or even beneficial to use this type of locking member on a non-compressible insert, Tanabe does disclose that it provides a hermetic sealing that is sufficient and complete (col. 1, lines 59-60).

8. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein, Rogers, and Tanabe, in further view of Berry et al. (U.S. Patent No. 4,657,346, from hereinafter "Berry").

Falkenstein, Rogers, and Tanabe disclose the optical fiber device as recited above. However, the references fail to specifically disclose the diameter of the narrow portion dimensioned such that the fibers act as strength members within the narrow portion of the passageway, in particular, having a cross-sectional area of fibers that is about ½ to the cross-sectional area to the narrow portion.

Berry discloses an optical fiber device with a seal where the cross-sectional area of fibers is about ½ when compared to the cross-sectional area to the narrow portion (fig. 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specified this ratio of cross-sectional areas since one would be motivated to have the fibers act as strength members within the narrow portion of the passageway. Not only does this reduce the bulkiness of the device, but also to enhance the sealing effect of the device (col. 4, lines 21-25).

Response to Remarks/Arguments

9. Applicant's arguments with respect to claim*** have been considered but are moot in view of the new ground(s) of rejection.

Applicant's main argument is that the Falkenstein reference does not disclose or suggest a plurality of optical fibers and that they "act as strength members," Examiner asserts that it well known in the art that optical fibers, when bundled together, serve as strength members. Clearly, when you take the Falkenstein reference, which ascribes to the use of a plurality of optical fibers when it discloses that "the present invention was particularly developed for...systems with glass *fibers*" [italics inserted by Examiner for emphasis] (col. 1,

lines 14-20), in conjunction with the Rogers reference (col. 3, lines 33-45), which illustrates the use of fibers used to support each other within a tube much like that in the Falkenstein reference, it is plain that a plurality of optical fibers enclosed within a tube not only serve to increase optical transmission, but also provide a structural skeleton of mutual support. Furthermore, in response to Applicant's amendment to include a fiber containing body with a a sealing material contained in the passageway, Examiner notes that Rogers meets this limitation by providing a fiber containing body having a passageway and a sealing material contained in the passageway (fig. 2, ref. 10).

Page 7

Applicant also argues that element W of the Falkenstein reference is a wall opening and not a fiber organizing insert. Examiner notes that the insert as recited is simply an element with holes to receive the fiber and is prevented from rotation. Examiner asserts that element W meets the limitations of claim 4 since it also has holes to receive the fiber and is prevented from rotation.

In response to Applicant's argument that element T of the Falkenstein reference is not a gas blocking device, Examiner notes that nowhere in the Office Action was element T referred to as the gas blocking device in the rejection of claim 6.

Applicant also argues that the ring discloses by the Tanage references does not secure a fiber organizing insert since it is only receiving one fiber. Examiner notes that an argument against the number of fibers does not render the ring inoperative as an insert. Even if Applicant could make an argument, the plurality of fibers argument has already been responded to above. Thus, the ring clearly still functions as an insert as they are recited in the claims.

Application/Control Number: 09/770,003 Page 8

Art Unit: 2871

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 571-272-2304. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/770,003 Page 9

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gw

February 17, 2004

TARIFUR R. CHOWDHURY